

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet	1	of	1
-------	---	----	---

Complete if Known

Application Number	09/763,577
Filing Date	February 26, 2001
First Named Inventor	Plrim, Patrick
Art Unit	2621
Examiner Name	not yet assigned
Attorney Docket Number	20046H-000700US

U.S. PATENT DOCUMENTS

Examiner	Cite No. ¹	Document Number Number Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
LS	1	US-5,008,946	04-16-1991	Ando	382/104
LS	2	US-5,088,488	02-18-1992	Markowitz et al.	607/127
LS	3	US-5,163,095	11-10-1992	Kosaka	382/1133
LS	4	US-5,359,533	10-25-1994	Ric ka et al.	702/175
LS	5	US-5,592,237	01-07-1997	Greenway et al.	348/176
LS	6	US-5,625,717	04-29-1997	Hashimoto et al.	382/260
LS	7	US-2002/0101432 A1	08-01-2002	Ohara et al.	345/589
					RECEIVED
					JUN 24 2004
					Technology Center 2600

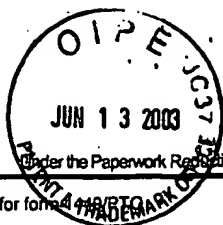
FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ²
		Country Code ³	Number ⁴	Kind Code ⁵ (if known)				
								<input type="checkbox"/>
								<input type="checkbox"/>
								<input type="checkbox"/>
								<input type="checkbox"/>
								<input type="checkbox"/>
								<input type="checkbox"/>
								<input type="checkbox"/>
	8							<input type="checkbox"/>

**Examiner
Signature**

Date Considered

***EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kind Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.



PTO/SB/08B (04-03)

Approved for use through 04/30/2003. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 449, PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Page 1

of 2

Complete if Known

Application Number	09/763,577
Filing Date	October 1, 2001
First Named Inventor	Patrick Pirim
Art Unit	2621
Examiner Name	to be assigned
Attorney Docket Number	20046H-000700US

RECEIVED

JUN 16 2003

Technology Center 2600

U.S. PATENT DOCUMENTS

Examiner	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
IS	AA	US-5,894,495		12/02/1997	Hara et al.	384324
IS	AB	US-5,712,729		01/27/1998	Hashimoto	359/562
IS	AC	US-5,793,888		08/11/1998	Delaney	382/219

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ²
		Country Code ³	Number ⁴	Kind Code ⁵ (if known)				
IS	AD	EP	0 048 110	A1	02/17/1982	Michel Urien and Guy Marie Pierre Jean Theron		<input type="checkbox"/>
IS	AE	FR	2 611 063	B1	08/19/1988	Imapply		<input type="checkbox"/>
IS	AF	FR	2 751 772	A1	01/30/1998	STE BEV Bureau Etude Vision		<input type="checkbox"/>
IS	AG	WO	98/05002	A1	02/05/1998	Carlus Magnus Limited		<input type="checkbox"/>
IS	AH	WO	00/11610	A1	03/02/2000	Holding BEV S.A.		<input type="checkbox"/>

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
IS	AI	Stephane G. Mallat, "A Theory for Multiresolution Signal Decomposition: The Wavelet Representation", IEEE Transactions on Pattern Analysis and Machine Intelligence, Vol. 11, No. 7, July 1989, pages 674-693.	
IS	AJ	John G. Daugman, "Complete Discrete 2-D Gabor Transforms by Neural Networks for Image Analysis and Compression", IEEE Transaction on Acoustics, Speech and Signal Processing, Vol. 36, No. 7, July 1988, pages 1169-1179.	
IS	AK	Alberto Tomita, Jr., et al., "Hand Shape Extraction from a Sequence of Digitized Gray-Scale Images", IECON '94, 20th International Conference on Industrial Electronics, Control and Instrumentation, Vol. 3 of 3, Special Sessions, Signal Processing and Control, pages 1925-1930	
IS	AL	Giacomo Indiveri et al., "System Implementations of Analog VLSI Velocity Sensors", 1996 IEEE Proceedings of MicroNeuro '96, pages 15-22	

Examiner
SignatureDate
Considered

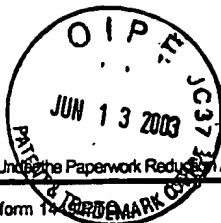
2/1/05

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

WC 9058942 v1



PTO/SB/08B (04-03)

Approved for use through 04/30/2003. OMB 0851-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1A

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Page 2

of 2

Complete if Known

Application Number	09/763,577
Filing Date	October 1, 2001
First Named Inventor	Patrick Pirim
Art Unit	2621
Examiner Name	to be assigned
Attorney Docket Number	20046H-000700US

RECEIVED

JUN 16 2003

Technology Center 2600

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
IS	AM	Pierre-Francois Ruedi, "Motion Detection Silicon Retina Based on Event Correlations", 1996 IEEE Proceedings of MicroNeuro '96, pages 23-29	
IS	AN	Revue Trimestrielle Des «Techniques de Lingenieur», "Instantanés Technique" Techniques De L'ingénieur, Mars 1997-N°5 (40F), ISSN 0994-0758,	
IS	AO	Es Professionnels de L'informatique En Entreprise Magazine, "Objectif Securite Des Reseaux", N° 24, Janvier, 1997	
IS	AP	Electronique International Hebdo, 5 Decembre 1996-N° 245, "Premier...Loeil", Francoise Gru svelet (with translation)	
IS	AQ	Nabeel Al Adsani, "For Immediate Release The Generic Visual Perception Processor", October 10, 1997, page 1	
IS	AR	Colin Johnson, "Vision Chip's Circuitry Has Its Eye Out For You", http://192.215.107.74/wire/news/1997/09/0913vision.html , pages 1-3	
IS	AS	The Japan Times, "British firm has eye on the future", Business & Technology, Tuesday, November 18, 1997, 4th Edition	
IS	AT	Inside the Pentagon's, Inside Missile Defense, an exclusive biweekly report on U.S. missile defense programs, procurement and policymaking, "Missile Technology" Vol. 3, No. 16-August 13, 1997, page 5	
IS	AU	Electronique, "Le Mechanisme de la Vision Humaine Dans Le Silicium", Electronique Le Mensuel Des Ingenieurs De Conception, Number 68, Mars 1997, ISSN 1157-1151 (with translation)	
IS	AV	"Elektronik Revue" ER, Eine Elsevier-Thomas-Publikation, Jahrgang 8, Marz 1997, NR.3, ISSN0939-1134	
IS	AW	"Un Processor de Perception Visuelle", LeHOUT PARLEUR, 25F Des solutions électroniques pour tous, N° 1858, 15 janvier 1997 (with translation)	
IS	AX	"Realiser Un Decodeur Pour TV Numerique", Electronique, Le Mensuel Des Ingenieurs De Conception, Number 66, Janvier 1997	
IS	AY	Groupe Revenu Français, Air & Cosmos Aviation International, "Un Calculateur De Perception Visuelle", Hebdomadaire, vendredi 6 decembre 1996, 34 Année, No 1590, 22F.	

Examiner Signature	<i>Is</i>	Date Considered	2/1/05
--------------------	-----------	-----------------	--------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

WC 9058942 v1



PTO/SB/08A (10-01)
Approved for use through 10/31/2002. OMB 0851-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 2

Complete if Known

Application Number	09/763,577
Filing Date	February 23, 2001
First Named Inventor	Pirim, Patrick, et al
Art Unit	2621
Examiner Name	Unassigned
Attorney Docket Number	20046H-000700US

RECEIVED

APR 16 2003

Technology Center 2600

U.S. PATENT DOCUMENTS

Examiner	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
IS	AA	US-6,488,909	B1	11/26/02	Patrick Pirim	348/143
IS	AB	US-6,304,187	B1	10/16/01	Patrick Pirim	340/576
IS	AC	US-5,384,865		01/24/95	Jennifer C. Loveridge	382/262
IS	AD	US-5,488,430		01/30/98	Sung H. Hong.	348/699
IS	AE	US-5,109,425		04/28/92	Teri B. Lawton	382/607
	AF	US-				
	AG	US-				
	AH	US-				
	AI	US-				
	AJ	US-				
	AK	US-				
	AL	US-				
	AM	US-				
	AN	US-				
	AO	US-				
	AP	US-				
	AQ	US-				
	AR	US-				
	AS	US-				
	AT	US-				

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³	Number ⁴	Kind Code ⁵ (if known)				
IS	AU	WO	99/36894		07/22/99	Patrick Pirim		<input type="checkbox"/>
IS	AV	EP	0 380 659	A1	08/08/90	Makoto Nagao		<input type="checkbox"/>
IS	AW	EP	0 394 959	A2	10/31/90	Axel Korn		<input type="checkbox"/>
IS	AX	WO	99/36893		07/22/99	Patrick Pirim et al.		<input type="checkbox"/>

Examiner
Signature

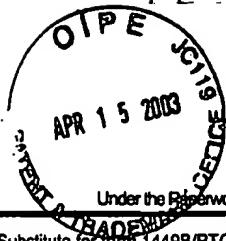
Date
Considered

2/1/05

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Kind Codes of U.S. Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231
WC 9055688 v1



PTO/SB/08B (10-01)

Approved for use through 10/31/2002. OMB 0851-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449B/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet **2** of **2****Complete if Known**

Application Number	09/763,577
Filing Date	February 23, 2001
First Named Inventor	Pirim, Patrick, et al
Art Unit	2611
Examiner Name	Unassigned
Attorney Docket Number	20046H-000700US

RECEIVED

APR 16 2003

Technology Center 2600

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
15	AY	KENICHI YAMADA, et al; "Image Understanding Based on Edge Histogram Method for Rear-End Collision Avoidance System", Vehicle Navigation & Information Systems Conference Proceedings; (1994), pp. 445 450 published 08/31/94; XP 000841348	
	AZ		
	AAA		
	ABB		
	ACC		
	ADD		
	AEE		
	AFF		
	AGG		
	AHH		
	All		

Examiner
SignatureDate
Considered

2/1/05

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

WC 9055688 v1

